AMOMUM PTEROCARPUM (ZINGIBERACEAE): A NEW RECORD IN THE FLORA OF MANIPUR.

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Abstract

Amomum pterocarpum Thwaites, a native of Sri Lanka has been reported for the first time from Manipur. It has a distribution in India and as well as Sri Lanka. Detailed description and illustration of the plant is provided. The plant was found growing with a small population as undershrub in moist evergreen forest of Imphal East district, Manipur.

Introduction:

The Zingiberaceae is the largest of the eight families of the order with 53 genera and over 1200 species (Kress, 1990, Kress et al., 2002). The genus Amomum Roxb. is the second largest genus of the family Zingiberaceae recorded with 150 species (Tripathi et al., 1999). Amomum subulatum was described in detail with an excellent illustration for the first time (Roxburgh, 1820a) in his ‘Plants of the Coast of Coromandel’ and in ‘Flora Indica’ (Roxburgh, 1820b). A. subulatum is indigenous to moist deciduous and semi-evergreen forests of sub-Himalayan tracts.

Manipur is situated in the north eastern part of India sharing international boundary with Myanmar. It falls in the Indo-Burma biodiversity hotspot and has its own unique bio-resources of flora and fauna. An extensive survey was conducted in Imphal East District of Manipur, North-east India in the month of April, 2015. The Amomum specimen was observed for the first time from Imphal East district. The area is located at 24°49' N and 94°04'E at an altitude of 1020m above msl. A detailed study was undertaken with the various floras and herbaria and is subsequently identified as Amomum pterocarpum Thwaites. The collection forms a new distributional record in the Zingiberaceae flora of Manipur.

Key species:-
Spike shortly peduncled, capsule globose, fruit irregular……………4.A. pterocarpum

Taxonomic treatment:-
Description:
Plant perennial, aromatic, rhizomatous. Pseudostem elongate 1 - 2.5 m tall. Leaf sheath present, large, oblong-lanceolate, adaxially pubescent. Inflorescence arising from base of leafy shoot. Leaves 45 – 50 x 12 – 17 cm. Spikes 7.5 cm, globose, shortly peduncled. Bracts imbricate, persistent, outer bract oblong, glabrous. Flowers white, showy. Calyx tube 2.6 cm long, 3 toothed. Corolla glabrous, shiny, white in colour. 2.5cm x 8mm. labellum clawed 4 x 3 cm, conspicuous, yellow at center, white margin, lateral staminodes reduced to short appendages, anther crest semi-lunar, 3 lobed. Filament well developed, 5 cm long. Fruit capsule, irregular, smooth.
Fl. & Fr. – April - October

Conservation status – Least concern
Uses – Fruit masticator, spice and condiments, applied in toothache.

Established report – Seeds used as a stomachic, gums problem and kidney stones
Discussion:
Encroachment of the forest area is a serious problem facing towards the destruction of the forest. Another major threat for the destruction of forests includes burning down and felling of trees for charcoal following shifting and jhum cultivation which decreases the vegetation and flora of the area resulting in loss of habitat of the plants as well as microorganisms in soil.
All the plant species under this family are ethnobotanically important, mentioning few are *Hedychium coronarium, Alpinia galanga, Curcuma angustifolia, Zingiber officinale* which are consumed as food, as medicine, as well as it has a significant importance in performing our ritual duties in Manipur. The Composition of oils in rhizomes and leaves of *Amomum pterocarpum* Thwaites were studied. Thus, the conservation practice of this plant species is the high time to start with the conservation program.

References: